

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

*Sub B1*

1. A vehicle seat and headrest arrangement comprising:

a seat bun frame means having fore and aft ends;

a seatback frame means joined to the bun frame means adjacent the aft end of the bun frame means; and

5 a headrest means with means of pivotal attachment with the seatback frame means along a pivotal axis generally perpendicular to the fore and aft direction whereby, upon a rear vehicle impact, the headrest means moves in a forward direction toward a head of a vehicle seat occupant.

*6* 2. An arrangement as described in claim 1 wherein the headrest ~~has~~ <sup>is</sup> a cushion portion separated from the seatback frame means by a post.

*7* 3. An arrangement as described in claim *6* 2 wherein the post is positionably held by a clamp having a generally fixed pivotal axis with a cross member of the seatback frame means.

*2* 4. An arrangement as described in claim 1 further comprising a spring operatively associated with the seatback frame means biasing the headrest against pivotal movement.

*a* *3* 5. An arrangement as described in claim *2* 4 wherein <sup>etc</sup> a spring elastically biases the headrest against pivotal movement up to a predetermined limit and thereafter plastically deforms.

*8* 6. An arrangement as described in claim *6* 2 having <sup>said target</sup> an impact plate operatively associated with the post and at least one cam guide member wherein ~~a force upon the impact plate causes the headrest to rotate forwardly.~~

*9* 7. An arrangement as described in claim *6* 2 further including the seatback frame means having a cross member and wherein the post is

- operatively associated with <sup>the</sup> ~~an~~ <sup>target</sup> impact member and a cam guide to direct the impact <sup>target</sup> ~~member~~ and wherein the post has a pivotal axis with respect to the cross member which is non-fixed with respect to the post upon impact upon the impact <sup>target</sup> ~~member~~, causing the headrest to pivot forwardly and extend upwardly.

4/8. An arrangement as described in claim 1 wherein the headrest effectively extends upwardly upon its pivotal movement toward the head of a seat occupant.

~~9. An arrangement as described in claim 8 wherein the post of the headrest extends rearwardly of the center of rotation of the post with respect to the pivotal axis of the headrest with the frame cross member.~~

Sub 10. A method of providing a headrest for a vehicle seat having a seat bun frame connected to an aft end of a fore and aft seat bun frame means, the method comprising:

- 5 pivotally attaching a headrest means with a pivotal axis generally perpendicular to the fore and aft direction of the seat; and upon a rear impact, pivoting the headrest forward to contact a head of a seat occupant.

11. A method as described in claim 9 further comprising extending the headrest upwardly.